Juan Pedro GarcÃ-a Villaluenga

List of Publications by Year
in descending order

44 papers	1,216 citations	393982 19 h-index	377514 34 g-index
45 all docs	45 docs citations	45 times ranked	1420 citing authors

#	Article	IF	Citations
1	A review on the separation of benzene/cyclohexane mixtures by pervaporation processes. Journal of Membrane Science, 2000, 169, 159-174.	4.1	283
2	Gas transport properties of polypropylene/clay composite membranes. European Polymer Journal, 2007, 43, 1132-1143.	2.6	118
3	Filled poly(2,6-dimethyl-1,4-phenylene oxide) dense membranes by silica and silane modified silica nanoparticles: characterization and application in pervaporation. Polymer, 2005, 46, 9881-9891.	1.8	85
4	Preparation and application of dense poly(phenylene oxide) membranes in pervaporation. Journal of Colloid and Interface Science, 2004, 278, 410-422.	5.0	77
5	Thermo-osmosis of mixtures of water and methanol through a Nafion membrane. Journal of Membrane Science, 2006, 274, 116-122.	4.1	54
6	Transport of methanol and water through Nafion membranes. Journal of Power Sources, 2004, 130, 22-29.	4.0	50
7	Water uptake and salt transport through Nafion cation-exchange membranes with different thicknesses. Chemical Engineering Science, 2012, 72, 1-9.	1.9	50
8	Analysis of the membrane thickness effect on the pervaporation separation of methanol/methyl tertiary butyl ether mixtures. Separation and Purification Technology, 2005, 47, 80-87.	3.9	37
9	Water and methanol transport in Nafion membranes with different cationic forms. Journal of Power Sources, 2006, 160, 181-186.	4.0	29
10	Permeation of electrolyte waterâ€“methanol solutions through a Nafion membrane. Journal of Colloid and Interface Science, 2003, 268, 476-481.	5.0	28
11	Sorption and permeation of solutions of chloride salts, water and methanol in a Nafion membrane. Electrochimica Acta, 2006, 51, 6297-6303.	2.6	28
12	On the methanolâ€“water electroosmotic transport in a Nafion membrane. Journal of Membrane Science, 2004, 236, 109-120.	4.1	26
13	Pervaporation of Toluene/Alcohol Mixtures through a Coextruded Linear Low-Density Polyethylene Membrane. Industrial & Engineering Chemistry Research, 2003, 42, 386-391.	1.8	25
14	Comparative study of liquid uptake and permeation characteristics of sulfonated cation-exchange membranes in water and methanol. Journal of Membrane Science, 2008, 323, 421-427.	4.1	24
15	Experimental estimation of gas-transport properties of linear low-density polyethylene membranes by an integral permeation method. Journal of Applied Polymer Science, 2001, 82, 3013-3021.	1.3	22
16	Numerical model of non-isothermal pervaporation in a rectangular channel. Journal of Membrane Science, 2005, 260, 119-130.	4.1	22
17	Gas permeation characteristics of heterogeneous ODPAâ€“BIS P polyimide membranes at different temperatures. Journal of Membrane Science, 2007, 305, 160-168.	4.1	21
18	Study of the activation energy for transport of water and methanol through a Nafion membrane. Chemical Engineering Journal, 2009, 152, 20-25.	6.6	21

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19	Mechanics, thermodynamics, and kinetics of ligand binding to biopolymers. PLoS ONE, 2017, 12, e0174830.	1.1	20
20	Pervaporation of Alcohols and Methyltert-Butyl Ether through a Dense Poly(2,6-dimethyl-1,4-phenylene oxide) Membrane. Industrial & Engineering Chemistry Research, 2004, 43, 2548-2555.	1.8	19
21	Influence of drawing on gas transport mechanism in LLDPE films. Polymer, 1998, 39, 3955-3965.	1.8	18
22	Swelling and electro-osmotic properties of cation-exchange membranes with different structures in methanolâ€“water media. Journal of Power Sources, 2008, 185, 822-827.	4.0	17
23	Liquid transport through sulfonated cation-exchange membranes for different waterâ€“alcohol solutions. Chemical Engineering Journal, 2010, 162, 643-648.	6.6	14
24	Diffusional characteristics of coextruded linear low-density polyethylenes prepared from different conditions of processing. Journal of Applied Polymer Science, 1998, 70, 23-37.	1.3	13
25	Experimental estimation of equilibrium and transport properties of sulfonated cation-exchange membranes with different morphologies. Journal of Colloid and Interface Science, 2009, 333, 497-502.	5.0	13
26	Simultaneous electroosmotic and permeation flows through a Nafion membrane. Journal of Colloid and Interface Science, 2004, 277, 176-183.	5.0	11
27	Experimental determination of the streaming potential across cation-exchange membranes with different morphologies. Journal of Membrane Science, 2016, 500, 16-24.	4.1	10
28	Annealing-Induced Enhancement of the Gas Diffusivity in Coextruded LLDPE Films Investigated by Positron Lifetime Spectroscopy. Macromolecules, 2002, 35, 8088-8092.	2.2	8
29	Osmotic behavior of a Nafion membrane in methanolâ€“water electrolyte solutions. Journal of Colloid and Interface Science, 2003, 263, 217-222.	5.0	8
30	Millable Polyurethane/Organoclay Nanocomposites: Preparation, Characterization, and Properties. Journal of Nanoscience and Nanotechnology, 2007, 7, 634-640.	0.9	8
31	Salt diffusion through cation-exchange membranes in alcoholâ€“water solutions. Separation and Purification Technology, 2009, 64, 321-325.	3.9	7
32	A non-equilibrium thermodynamics model of multicomponent mass and heat transport in pervaporation processes. Journal of Non-Equilibrium Thermodynamics, 2012, 37, .	2.4	7
33	Permeation of carbon dioxide through multiple linear low-density polyethylene films. European Polymer Journal, 2000, 36, 1697-1702.	2.6	6
34	Noncooperative thermodynamics and kinetic models of ligand binding to polymers: Connecting McGheeâ€“von Hippel model with the Tonks gas model. Physical Review E, 2020, 102, 012407.	0.8	6
35	Optimal protocol for a collective flashing ratchet. Europhysics Letters, 2014, 107, 10006.	0.7	5
36	Simultaneous electroosmotic and permeation flows through a Nafion membrane. Journal of Colloid and Interface Science, 2005, 288, 540-547.	5.0	4

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37	Poly(2,6-dimethyl-1,4-phenylene oxide) mixed matrix pervaporation membranes. Desalination, 2006, 200, 376-378.	4.0	4
38	Reliability of rectified transport: Coherence and reproducibility of transport by open-loop and feedback-controlled Brownian ratchets. Physical Review E, 2018, 98, .	0.8	4
39	Methanol-Water Solution Transport in Nafion Membranes with Different Cationic Forms. Separation Science and Technology, 2011, 46, 944-949.	1.3	3
40	Cooperative kinetics of ligand binding to linear polymers. Computational and Structural Biotechnology Journal, 2022, 20, 521-533.	1.9	3
41	Study of the Internal Morphology of Cation-Exchange Membranes by Means of Electroosmotic Permeability Relaxations. Journal of Physical Chemistry B, 2009, 113, 12952-12957.	1.2	2
42	Fluid flow modeling in a sulfonated cationâ€exchange membrane. Journal of Applied Polymer Science, 2009, 114, 1412-1416.	1.3	1
43	Estimation of the temperature of a radiating body by measuring the stationary temperatures of a thermometer placed at different distances. European Journal of Physics, 2016, 37, 045104.	0.3	1
44	Electro-Osmotic Behavior of Polymeric Cation-Exchange Membranes in Ethanol-Water Solutions. Entropy, 2020, 22, 692.	1.1	0